

COMPUTERIZED MEDICAL IMAGING AND GRAPHICS

Volume 21 Number 1

1997

CONTENTS

- David Kucera and Roy W. Martin*
- Akihiko Arakawa, Tetsuya Matsukawa, Mitsuko Kira, Seiji Tomiguchi, Mutsumasa Takahashi and Osamu Kawano*
- Ching-Wen Yang, Pau-Choo Chung, Chein-I Chang, San-Kan Lee and Ling-Yang Kung*
- Giuseppe Potente, Valter Iacari and Massimo Caimi*
- A. Oscar Beitia, Jack O. Haller and Alan Kantor*
- Thomas Hackländer, Jürgen R. Reichenbach, Jörg Weule and Ulrich Mödder*
- Katsuyoshi Mineura, Toshio Sasajima, Masayoshi Kowada, Toshihide Ogawa, Jun Hatazawa and Kazuo Uemura*
- R. Nuri Sener*
- R. Nuri Sener*
- I Segmentation of Sequences of Echocardiographic Images Using a Simplified 3D Active Contour Model with Region-based External Forces
- 23 Value of Ultrasound-guided Core-needle Biopsy for Peripheral Intrathoracic and Mediastinal Lesions
- 29 A Hierarchical Model for PACS
- 39 The Challenge of Solitary Pulmonary Nodules: HRCT Evaluation
- 47 CT Findings in Pediatric Gastrointestinal Ascariasis
- 51 An Efficient and Robust PC Program to Calculate MR Based Regional Cerebral Blood Volume Maps
- 63 Early Delineation of Cerebral Glioma Using Amino Acid Positron Tracers
- 67 Cytomegalovirus Infection and Joubert's Syndrome
- 71 Cerebellar Vermian Clefts Disconnecting the Hemispheres: a Different Entity Unassociated with Joubert's Syndrome
- 77 Announcement

Volume 21 Number 2

1997

CONTENTS

- A. Sebbahi, A. Herment, A. de Cesare and E. Mousseaux*
- Yuh-Hwan Liu, Yung-Nien Sun, Chi-Wu Mao and Chii-Jeng Lin*
- John Ostuni and Stanley Dunn*
- 79 Multimodality Cardiovascular Image Segmentation Using a Deformable Contour Model
- 91 Edge-shrinking Interpolation for Medical Images
- 103 Measuring Registration Potential in Planar Transmission Images

Yukunori Korogi, Mutsumasa
Takahashi, Nobuhisa Mabuchi,
Tsuneya Watabe, Yoshiaki Shiokawa,
Hayao Shiga, Toshihiro O'Uchi,
Toshio Nakagawa, Hitoshi Miki,
Yoshiharu Horikawa, Satoru Fujiwara
and Masahiro Furuse

Richard Tello, Clare M. Tempany,
Jessie Chai, Maureen Ainslie and
Douglass F. Adams

R. Nuri Sener

Arthur W. Toga, Amir Goldkorn,
Karen Ambach, Kuo Chao,
Bruce C. Quinn and Patrick Yao

111 MR Angiography of Intracranial Aneurysms:
A Comparison of 0.5 T and 1.5 T

117 MR Hystero-graphy Using Axial Long TR Imaging
with Three-dimensional Projections of the Uterus

125 Arachnoid Cysts and Pneumosinus Dilatans

131 Postmortem Cryosectioning as an Anatomic
Reference for Human Brain Mapping

143 Announcement

Volume 21 Number 3

1997

CONTENTS

Barry R. Masters and Stephen L. Senft

Osamu Sakai, Yun Shen, Yasunori Takata
and Makoto Furuse

H. K. Huang, Albert W. K. Wong and
Xiaoming Zhu

Mitsuru Ikeda, Shigeki Ito, Takeo Ishigaki
and Kazunobu Yamauchi

Geoffrey Dougherty

R. Nuri Sener

R. Nuri Sener

Ibrahim El Sherif and
Faia M. Shembesh

145 Transformation of a Set of Slices Rotated on a
Common Axis to a Set of Z-slices: Application to
Three-dimensional Visualization of the *in vivo*
Human Lens

153 The Use of Deblurring Technique for Improving the
Longitudinal Resolution in Helical CT of the Head and
Neck Region

165 Performance of Asynchronous Transfer Mode (ATM)
Local Area and Wide Area Networks for Medical
Imaging Transmission in Clinical Environment

175 Evaluation of a Neural Network Classifier for
Pancreatic Masses Based on CT Findings

185 Quantitative Assessment of Abdominal Aortic
Artherosclerosis Observed in CT Scans

195 MR Imaging of Wilson's Disease: Contrast
Enhancement of the Cerebral Cortex, and
Corticomedullary Junction

201 MR Demonstration of Cerebral Hemimegalencephaly
Associated with Cerebellar Involvement (Total
Hemimegalencephaly)

205 A Tonsillolith Seen on MRI

Volume 21 Number 4**1997****CONTENTS**

- S. L. Lou, David R. Hoogstrate and H. K. Huang* 209 An Automated PACS Image Acquisition and Recovery Scheme for Image Integrity Based on the DICOM Standard
- P. Sabbah, G. Simond and G. Salamon* 219 "Follow-Up" Method for Processing of Brain Function MR Images
- Jeffrey M. Bundy and Christine H. Lorenz* 225 TAGASIST: A Post-Processing and Analysis Tools Package for Tagged Magnetic Resonance Imaging
- Apostolos H. Karantanas and Vasilios Sandris* 233 Maxillary Sinus Inflammatory Disease: Ultrasound Compared to Computed Tomography
- Kazumasa Hayasaka, Yoshiaki Tanaka and Jiro Kawamori* 243 Dynamic MR Imaging of Splenic Tumor
- Miyuki Torashima, Yasuyuki Yamashita, Yoshimi Hatanaka, Mutsumasa Takahashi, Kohji Miyazaki and Hitoshi Okamura* 253 Invasive Adenocarcinoma of the Uterine Cervix: MR Imaging
- R. Nuri Sener* 261 Multiple, Small, Intracranial Arachnoid Cysts

Volume 21 Number 5**1997****CONTENTS**

- S. Davis Kent and Hua Lee* 265 Automation and System Integration of Scanning Tomographic Acoustic Microscope
- T. Shimizu, S. Yoshikawa, Y. Uesugi, K. Yamamoto, R. Matsui, R. Sueyoshi and I. Narabayashi* 277 Three-dimensional CT Angiography of the Splenic-portal Venous System by using Multiple Threshold Display
- J. C. Chen* 283 Scatter Rejection in Modular Gamma Cameras for Use in Dynamic 3D SPECT Brain Imaging System
- N. Tomura, H. Hirano, O. Watanabe, K. Kato, K. Sasaki, J. Watarai, H. Sasajima, Y. Ito and K. Mineura* 293 Preliminary Results with Technetium-99m MIBI SPECT Imaging in Patients with Brain Tumors: Correlation with Histological and Neuroradiological Diagnoses and Therapeutic Response
- J. R. Mansfield, M. G. Sowa, G. B. Scarth, R. L. Somorjai and H. H. Mantsch* 299 Fuzzy C-means Clustering and Principal Component Analysis of Time Series from Near-infrared Imaging of Forearm Ischemia
- H. K. Huang, S. L. Lou and W. P. Dillon* 309 Neuroradiology Workstation Reading in an Inter-hospital Environment: A Nineteen Month Study
- 319 Announcements
- 321 Addendum

CONTENTS

- M. Stoltenberg, A. Andreasen,
K. B. Jensen, S. Juhl, G. Danscher and
E. Ernst*
- Neville Glajchen and Robert S. Shapiro*
- R. Nuri Sener*
- R. Nuri Sener*
- J. N. Stahl and B. Kramann*
- Sadahiro Nomura, Tetsuji Orita,
Tohru Tsurutani, Koji Kajiwara
and Akifumi Izumihara*
- R. N. Sener, O. Yalman, N. Cetingul,
S. Tutuncuoglu, K. Kavakli*
- R. Nuri Sener*
- Tsuyoshi Tajima, Kengo Yoshimitsu,
Hiroshi Honda, Toshirou Kuroiwa,
Hiroyuki Irie, Kenji Makisumi,
Kouji Masuda, Yoshihumi Abe and
Seiji Naitou*
- Kazumasa Hayasaka, Shouichi Soeda,
Yoshiaki Tanaka and Mitiko Hirayama*
- 323 PC-Assisted Three-Dimensional Description of Organs Containing Tubular Structures, applied on the Epididymis of the Rat
- 331 Underassessment of Lower Extremity Deep Venous Thrombosis Using Color Flow Doppler Compared to Compression Sonography
- 337 Large Isthmus of the Cingulate Gyrus: An Unusual Anatomical Variation Simulating Tumor
- 341 Arachnoid Cysts Associated with Post-Traumatic and Spontaneous Rupture into the Subdural Space
- 345 Customized Medical Image Databases: A Low-Cost Approach
- 351 Transient Hydrocephalus due to Movement of a Clot Plugging the Aqueduct
- 355 Dysosteoclerosis: Clinicoradiologic Findings Including Brain MRI
- 359 Sturge-Weber Syndrome: A Patient with a Cervical Port-Wine Nevus
- 365 Hypervascular Renal Transitional Cell Carcinoma with Extension into the Renal Vein and Inferior Vena Cava
- 369 Hepatic Angiomyolipoma: Value of Breath Hold 2D Flash GD-Dynamic Imaging with Fat Saturation

